Name:

at1113exam: Expand, factor, and solve quadratics (v329)

1. Expand the following expression into standard form.

$$(8x + 5)(8x - 5)$$

2. Solve the equation.

$$(7x - 8)(5x + 2) \;=\; 0$$

3. Expand the following expression into standard form.

$$(5x + 6)(7x + 3)$$

4. Expand the following expression into standard form.

$$(9x + 7)^2$$

5. Solve the equation.

$$5x^2 + 7x + 15 \;=\; 2x^2 - 4x + 5$$

6. Factor the expression.

$$25x^2 - 64$$

7. Factor the expression.

$$x^2 - 4x - 12$$

8. Solve the equation with factoring by grouping.

$$8x^2 + 12x + 10x + 15 \;=\; 0$$